

Exhibit 300: Capital Asset Summary

Part I: Summary Information And Justification (All Capital Assets)

Section A: Overview & Summary Information

Date Investment First Submitted: 2010-08-06
Date of Last Change to Activities: 2012-07-24
Investment Auto Submission Date: 2012-02-28
Date of Last Investment Detail Update: 2012-06-22
Date of Last Exhibit 300A Update: 2012-08-16
Date of Last Revision: 2012-08-16

Agency: 010 - Department of the Interior **Bureau:** 12 - United States Geological Survey

Investment Part Code: 01

Investment Category: 00 - Agency Investments

1. Name of this Investment: USGS - CLU - Land Satellites Data System (LSDS)

2. Unique Investment Identifier (Ull): 010-000001047

Section B: Investment Detail

- 1. Provide a brief summary of the investment, including a brief description of the related benefit to the mission delivery and management support areas, and the primary beneficiary(ies) of the investment. Include an explanation of any dependencies between this investment and other investments.**

DOI/USGS serves as the steward of the national archive for Landsat data. LSDS ensures that timely, consistently calibrated imagery of the Earth's land surface will be available to users in 186 countries worldwide. LSDS customers/users include Federal, State, local and tribal governments, academia, industry, international community, and the general public requiring land surface data for applications such as resource management, water management, emergency response, agricultural, forestry, geology, and land change science. Primary IT functions include: - Capture land surface data. - Archive satellite mission data. - Calibrate and validate satellite data. - Process data to generate user products. - Delivery of data through the user portal with search capability.

- 2. How does this investment close in part or in whole any identified performance gap in support of the mission delivery and management support areas? Include an assessment of the program impact if this investment isn't fully funded.**

The LSDS investment will capture, archive, process, and distribute, through the Internet, to users world-wide land surface data received from Landsat 8. LSDS fulfills DOI/USGS requirements under the Land Remote Sensing Policy Act of 1992 for the continuity of Landsat data and Presidential Decision Directive National Science and Technology Council-3 (signed

May, 1994 and revised October 16, 2000), which directs DOI/USGS to assume responsibility for the management and operations of the Landsat satellites, currently Landsats 5 and 7. Also, the 2010 National Space Policy assigns the Secretary responsibility for determining Federal-agency requirements for operational collection, processing, archiving, and distribution of land surface data. If full funding is not provided for this investment, land surface data will not be readily available for scientists and decision makers to address issues critical to the Nation, such as water management or emergencies, natural or human-induced. For example, in at least 16 western states, where irrigated agriculture accounts for 86% of all water consumption, Landsat data are essential to determine water-usage critical for arbitrating the increasingly common water-resource conflicts.

3. Provide a list of this investment's accomplishments in the prior year (PY), including projects or useful components/project segments completed, new functionality added, or operational efficiency achieved.

- Distributed approximately 2.7 million scenes. - Completed Landsat Data Continuity Mission (LDCM) Ground Network Release 1. - Completed LDCM Data Processing and Archive System (DPAS) Release 1. - Completed LDCM Ground Network pre-launch support phase 1. - Completed LDCM DPAS Release 2.

4. Provide a list of planned accomplishments for current year (CY) and budget year (BY).

Current Year (2012) - Distribute about 2.7 million scenes per year. - Implement full resolution browse capability into operations. - Complete LSDS ground system integration analysis. - Complete LDCM Science Data Level 1 Processing release. Budget Year (2013) - Distribute about 2.7 million scenes per year. - Complete LDCM Ground Network pre-launch support phase 2. - Complete LDCM Science Data Level 1 Processing full production capability release. - Complete LDCM International Cooperator interface release. - Declare LDCM Initial Operating Capability (IOC). - Complete and closeout LDCM development project. - USGS assumes operational responsibility for LDCM satellite mission from NASA.

5. Provide the date of the Charter establishing the required Integrated Program Team (IPT) for this investment. An IPT must always include, but is not limited to: a qualified fully-dedicated IT program manager, a contract specialist, an information technology specialist, a security specialist and a business process owner before OMB will approve this program investment budget. IT Program Manager, Business Process Owner and Contract Specialist must be Government Employees.

2011-07-27

Section C: Summary of Funding (Budget Authority for Capital Assets)

1.

Table I.C.1 Summary of Funding

	PY-1 & Prior	PY 2011	CY 2012	BY 2013
Planning Costs:	\$0.0	\$0.0	\$0.0	\$0.0
DME (Excluding Planning) Costs:	\$0.0	\$13.4	\$13.1	\$7.3
DME (Including Planning) Govt. FTEs:	\$0.0	\$0.8	\$0.9	\$0.5
Sub-Total DME (Including Govt. FTE):	0	\$14.2	\$14.0	\$7.8
O & M Costs:	\$0.0	\$5.1	\$5.3	\$9.5
O & M Govt. FTEs:	\$0.0	\$0.2	\$0.2	\$0.6
Sub-Total O & M Costs (Including Govt. FTE):	0	\$5.3	\$5.5	\$10.1
Total Cost (Including Govt. FTE):	0	\$19.5	\$19.5	\$17.9
Total Govt. FTE costs:	0	\$1.0	\$1.1	\$1.1
# of FTE rep by costs:	0	7	7	7
Total change from prior year final President's Budget (\$)		\$0.0	\$0.0	
Total change from prior year final President's Budget (%)		0.00%	0.00%	

2. If the funding levels have changed from the FY 2012 President's Budget request for PY or CY, briefly explain those changes:

There is no change from the FY12 President's Budget Request.

Section D: Acquisition/Contract Strategy (All Capital Assets)

Table I.D.1 Contracts and Acquisition Strategy

Contract Type	EVM Required	Contracting Agency ID	Procurement Instrument Identifier (PIID)	Indefinite Delivery Vehicle (IDV) Reference ID	IDV Agency ID	Solicitation ID	Ultimate Contract Value (\$M)	Type	PBSA ?	Effective Date	Actual or Expected End Date
Awarded	1434	ING12PD00502	ING10PC00044	1434							
Awarded	1434	ING11PD00568	ING10PC00044	1434							

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:
 Earned Value Management (EVM) is required on contracts depending on size and other criteria for reporting EVM.

Exhibit 300B: Performance Measurement Report

Section A: General Information

Date of Last Change to Activities: 2012-07-24

Section B: Project Execution Data

Table II.B.1 Projects

Project ID	Project Name	Project Description	Project Start Date	Project Completion Date	Project Lifecycle Cost (\$M)
LSDS-0001	L8	Development of the ground system to collect, archive, process, & distribute data from L8.			

Activity Summary

Roll-up of Information Provided in Lowest Level Child Activities

Project ID	Name	Total Cost of Project Activities (\$M)	End Point Schedule Variance (in days)	End Point Schedule Variance (%)	Cost Variance (\$M)	Cost Variance (%)	Total Planned Cost (\$M)	Count of Activities
LSDS-0001	L8							

Key Deliverables

Project Name	Activity Name	Description	Planned Completion Date	Projected Completion Date	Actual Completion Date	Duration (in days)	Schedule Variance (in days)	Schedule Variance (%)
LSDS-0001	Complete Systems Engineering/Ground Readiness Test 5-Joint NASA/USGS	Complete GRT 5	2011-03-31	2012-09-30		120	-549	-457.50%
LSDS-0001	Complete Integrated Baseline Review	Project Management	2011-04-30	2012-09-30	2012-04-30	211	-366	-173.46%

Key Deliverables								
Project Name	Activity Name	Description	Planned Completion Date	Projected Completion Date	Actual Completion Date	Duration (in days)	Schedule Variance (in days)	Schedule Variance (%)
LSDS-0001	Complete Systems Engineering/Ground Readiness Test 6-Joint NASA/USGS	Complete GRT 6	2011-05-31	2012-07-31		60	-458	-763.33%
LSDS-0001	Complete Systems Engineering/Ground Readiness Test 4B-Joint USGS/NASA	Complete GRT 4B	2011-09-30	2011-11-30	2011-11-30	60	-61	-101.67%
LSDS-0001	Complete Systems Engineering/Ground Readiness Test 4C-Joint USGS/NASA	Complete GRT 4C	2012-08-31	2012-08-31		335	0	0.00%

Section C: Operational Data

Table II.C.1 Performance Metrics

Metric Description	Unit of Measure	FEA Performance Measurement Category Mapping	Measurement Condition	Baseline	Target for PY	Actual for PY	Target for CY	Reporting Frequency
Progress towards achieving operational readiness in 2012 as measured by the percent of the Search & Order development lifecycle milestones accomplished	% Complete	Customer Results - Service Accessibility	Over target	0.000000	86.000000	88.000000	100.000000	Quarterly
% of satellite data sent to customers based on customer priority specification	% Complete	Customer Results - Timeliness and Responsiveness	Over target	90.000000	93.000000	95.000000	93.000000	Quarterly
Progress towards achieving operational readiness in 2012 as measured by the percent of the LSDS lifecycle milestones accomplished	% Complete	Process and Activities - Quality	Over target	0.000000	95.000000	90.000000	100.000000	Quarterly
% of satellite data available from archive within 24 hours of capture	% Complete	Process and Activities - Quality	Over target	95.000000	97.000000	99.000000	97.000000	Quarterly
Progress toward achieving operational readiness in 2012 as measured by the percent of the Image Processing development lifecycle milestones accomplished	% Complete	Technology - Information and Data	Over target	0.000000	67.000000	67.000000	92.000000	Quarterly
% of nation coverage to meet land use planning and monitoring	% Complete	Mission and Business Results - Services for Citizens	Over target	95.000000	100.000000	100.000000	100.000000	Quarterly
Progress towards	% Complete	Mission and Business	Over target	0.000000	90.000000	95.000000	100.000000	Quarterly

Table II.C.1 Performance Metrics

Metric Description	Unit of Measure	FEA Performance Measurement Category Mapping	Measurement Condition	Baseline	Target for PY	Actual for PY	Target for CY	Reporting Frequency
achieving operational readiness in 2012 as measured by the percent of the Storage and Archive development lifecycle milestones accomplished		Results - Services for Citizens						
Unit costs of managed services	Dollars	Mission and Business Results - Management of Government Resources	Over target	3.650000	3.650000	1.953000	4.000000	Quarterly
% Success Rate - Satellite data capture	% Complete	Technology - Effectiveness	Over target	95.000000	97.000000	99.000000	97.000000	Monthly